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Last month, we visited the infrastructure sites of two flagship projects supported by CEF Energy: ACON Smart Grids (Czechia-Slovakia) and Danube InGrid (Slovakia-Hungary). Both share the common goals of fostering the integration of the electricity market across borders; ensuring quality, safety and reliability of electricity supply; and ...

In the Western and Southwestern Slovakia, smart grids are being constructed thanks to the PCI (projects of common interest) ACON and Danube InGrid, co-funded by the EU. PCI projects are key infrastructure projects aimed at interconnecting European energy systems and achieving energy and climate targets of EU.

As part of Danube InGrid, technology in 150 HV/LV transformer stations in Slovakia will be modernised, new substations will be constructed along with 320 km of optical network, and IT solutions enabling the Smart Grid concept operation will be implemented.

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The aim of the article will be to evaluate the current state of systems and production sources of electricity in the Slovak Republic and to provide a better insight and suggestions for rebuilding current networks on a smart grid. The proposals will also include models of some RES in the Matlab/Simulink software.

ENGIE's first battery storage system in Slovakia, utilizing Pixii's PowerShaper technology, began operations in January 2024. This BESS is integral to ENGIE's multi-phase project, enhancing grid stability, supporting renewable energy integration, and laying the groundwork for future energy flexibility services in Slovakia.

Smart grid will incorporate renewable energy sources, intelligent sensors and controls, automated switches, robust communication technology, etc. Implementation of such smart grid requires...

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